

Title (en)

RE-SINTERED BORON-RICH POLY-CRYSTALLINE CUBIC BORON NITRIDE AND METHOD FOR MAKING SAME

Publication

EP 0230926 B1 19920527 (EN)

Application

EP 87100526 A 19870116

Priority

US 82389386 A 19860129

Abstract (en)

[origin: US4673414A] Disclosed is a method for making re-sintered polycrystalline CBN compact which comprises placing sintered boron-rich polycrystalline CBN particles in a high temperature/high pressure apparatus and subjecting said boron-rich CBN particles to a pressure and a temperature adequate to re-sinter said particles, the temperature being below the reversion temperature of CBN, for a time sufficient to re-sinter the polycrystalline CBN particles therein. The boron-rich polycrystalline CBN particles in the HP/HT apparatus contain no impurity which would interfere with the sintering process (CBN sintering inhibiting impurities) and no sintering aid material.

IPC 1-7

C04B 35/58

IPC 8 full level

C04B 35/626 (2006.01); **C04B 35/58** (2006.01); **C04B 35/583** (2006.01); **C04B 35/5831** (2006.01); **C09K 3/14** (2006.01)

CPC (source: EP US)

C04B 35/5831 (2013.01 - EP US); **C09K 3/1418** (2013.01 - EP US)

Citation (examination)

US 3767371 A 19731023 - WENTORF R, et al

Cited by

DE4024518A1

Designated contracting state (EPC)

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US 4673414 A 19870616; AT E76631 T1 19920615; CA 1260672 A 19890926; CN 1006630 B 19900131; CN 87100500 A 19870819; DE 3779330 D1 19920702; EP 0230926 A2 19870805; EP 0230926 A3 19890614; EP 0230926 B1 19920527; IE 59837 B1 19940406; IE 870036 L 19870729; JP H07100627 B2 19951101; JP S62197357 A 19870901; ZA 869238 B 19870729

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US 82389386 A 19860129; AT 87100526 T 19870116; CA 528040 A 19870123; CN 87100500 A 19870126; DE 3779330 T 19870116; EP 87100526 A 19870116; IE 3687 A 19870107; JP 1634087 A 19870128; ZA 869238 A 19861205